SONY

3-858-668-12(1)

Video Cassette Recorder

Operating Instructions

VHS
PAL NTSC 4.43

Hi-Fi

G-CODE

SLV-X827AS/NZ

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WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.
To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.
The mains lead must only be changed at a qualified service shop.

Precautions

Safety

- This unit operates on 220-240 V AC, 50 Hz. Check that the unit's operating voltage is identical with your local power supply.
- If anything falls into the cabinet, unplug the unit and have it checked by qualified personnel before operating it any further.
- The unit is not disconnected from the mains as long as it is connected to the mains, even if the unit itself has been turned off.
- Unplug the unit from the mains if you do not intend to use it for an extended period of time. To disconnect the lead, pull it out by the plug, never by the lead.

Installing

- Allow adequate air circulation to prevent internal heat buildup.
- Do not place the unit on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies) that may block the ventilation slots.
- Do not install the unit near heat sources such as radiators or air ducts, or in a place subject to direct sunlight, excessive dust, mechanical vibration or shock.
- Do not install the unit in an inclined position. It is designed to be operated in a horizontal position only.
- Keep the unit and cassettes away from equipment with strong magnets, such as microwave ovens or large loudspeakers.
- Do not place heavy objects on the unit.
- If the unit is brought directly from a cold to a warm location, moisture may condense inside the VCR and cause damage to the video head and tape. When you first install the unit, or when you move it from a cold to a warm location, wait for about one hour before operating the unit.

Caution

Television programmes, films, video tapes and other materials may be copyrighted. Unauthorized recording of such material may be contrary to the provisions of the copyright laws. Also, use of this recorder with cable television transmission may require authorization from the cable television transmitter and/or programme owner.

Compatible colour systems

- This VCR is designed to record and play back using the PAL (B/G) colour system. Recording of video sources based on other colour systems cannot be guaranteed.
- Tapes recorded with the NTSC colour system can be played back on this VCR using a TV or a colour monitor for the PAL colour system.

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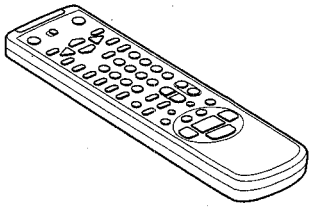
* G-CODE is a trademark applied for by Gemstar Development Corp. G-CODE system is manufactured under license from Gemstar Development Corporation.

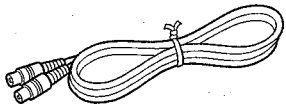
Step 1
Unpacking

Check that you have received the following items with the VCR:

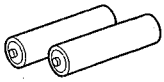
- Remote commander



- Aerial cable



- R6 (size AA) batteries



Checking your model name

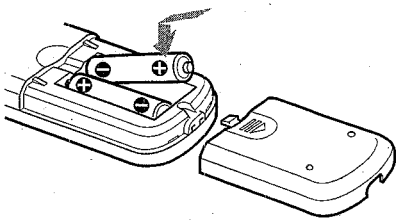
The instructions in this manual are for the 2 models : SLV-X827AS and X827NZ. Check your model number by looking at the rear panel of your VCR. The SLV-X827AS is the model used for illustration purposes. Any difference in operation is clearly indicated in the text, for example, "SLV-X827NZ only."

Step 2

Setting up the remote commander

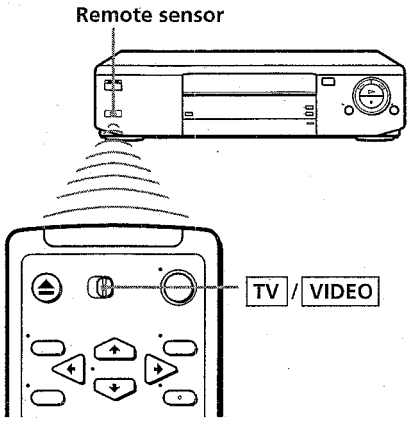
Inserting the batteries

Insert two R6 (size AA) batteries by matching the + and – on the batteries to the diagram inside the battery compartment.



Using the remote commander

You can use this remote commander to operate this VCR and a Sony TV. Buttons on the remote commander marked with a dot (•) can be used to operate your Sony TV.



To operate	Set TV/VIDEO to
the VCR	VIDEO and point at the remote sensor on the VCR
a Sony TV	TV and point at the remote sensor on the TV

Notes

- The TV/VIDEO button selects an input source of the TV from aerial in or line in. The button does not control this VCR.
- With normal use, the batteries should last about three to six months.
- If you do not use the remote commander for an extended period of time, remove the batteries to avoid possible damage from battery leakage.
- Do not use a new battery with an old one.
- Do not mix different types of batteries.

continued

Controlling other TVs with the remote commander

The remote commander is preprogrammed to control non-Sony TVs. If your TV is listed in the table below, set the appropriate manufacturer's code number.

1 Set TV / VIDEO at the top of the remote commander to TV.

2 Hold down ⏻, and enter your TV's code number(s) using the number buttons. Then release ⏻.

Now you can use the ⏻, VOL +/–, PROG +/–, programme number buttons, –/-- (ten's digit) and TV/VIDEO buttons to control your TV. You can also use the buttons marked with a dot (•) to control a Sony TV. To control the VCR, reset TV / VIDEO to VIDEO.

Tip

- If you set your TV's code number correctly while the TV is turned on, the TV turns off automatically.

Code numbers of controllable TVs

If more than one code number is listed, try entering them one at a time until you find the one that works with your TV.

Manufacturer	Code number
Sony	01*1,02,03,04,05
Aiwa	32
Akai	68
Blaupunkt	10,21
Brionvega	40
C.G.M	09
Colonad	03
Dual	44
Emerson	03,04
Fenner	30,31
Ferguson	52
Gold Star	03,04,17
Grundig	10*1,11*1
Hitachi	24
Hyper	31
Inno-Hit	41

Manufacturer	Code number
Irradio	20
ITT/Nokia	15,16,69*3
JVC	33*1
Loewe	45
Mitsubishi	27*1,28*1,50*1,51*1
Mivar	09
NEC	66
Nordmende	35,42
Orion	47,48
Panasonic	17*1,49
Philips	06*1,07*1,08*1
Phonola	18,19
Pioneer	26
Saba	12,13
Samsung	22,23
Sanyo	25

Manufacturer	Code number
Schneider	46
Seleco	14
Sharp	29
Siemens	39
Sinudyne	37
TEAC	67

Manufacturer	Code number
Telefunken	36
Thomson	43*2
Toshiba	38
White Westinghouse	34

You can use the WIDE button after entering a code number with any of the following marks;

*1: Press WIDE to switch the wide picture mode on or off.

*2: Press WIDE, then press VOL+/– to select the wide picture mode you want.

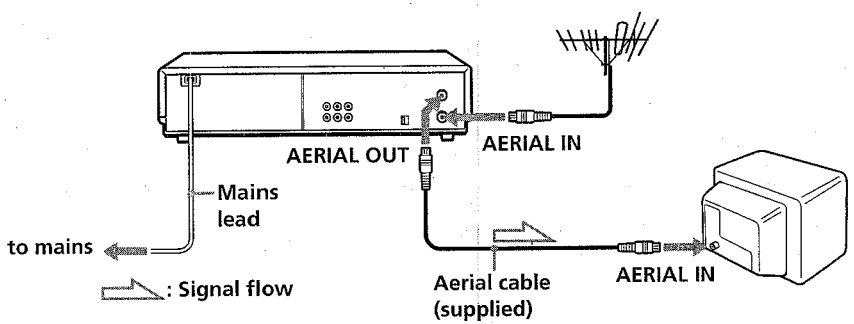
*3: Press WIDE. The menu appears on the TV screen. Then, press CURSOR ↑/↓/←/→ to select the wide picture you want and press EXECUTE.

Notes

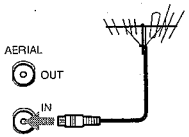
- If the TV uses a different remote control system from the one programmed to work with the VCR, you cannot control your TV with the remote commander.
- If you enter a new code number, the code number previously entered will be erased.
- When you replace the batteries of the remote commander, the code number automatically resets to 01 (Sony). Reset the appropriate code number.

Step 3

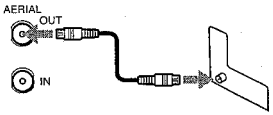
Connecting the VCR



1 Disconnect the aerial cable from your TV and connect it to AERIAL IN on the rear panel of the VCR.



2 Connect AERIAL OUT of the VCR and the aerial input of your TV using the supplied aerial cable.



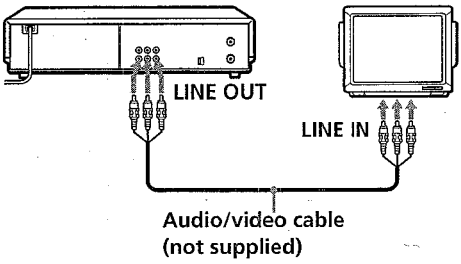
3 Connect the mains lead to the mains.

Additional connections

To a TV that has audio/video input jacks

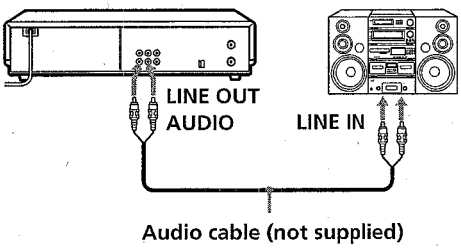
This additional connection improves picture and sound quality. Connect the TV as shown on the right.

If you want to use the Trinitron TV Synchro Play function (see page 27), this connection is necessary. (If your TV has two or more inputs, connect the audio/video cable to the VIDEO IN 1 jacks.)



To a stereo system

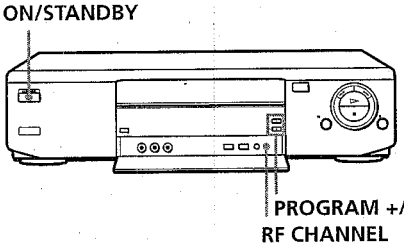
You can improve sound quality by connecting a stereo system as shown on the right.



Step 4

Tuning your TV to the VCR

If you have connected your VCR to the TV using the audio/video cable, skip this step.



1 ON/STANDBY

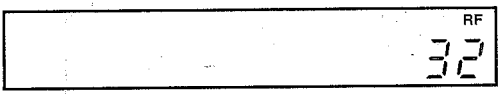
Press ON/STANDBY to turn on the VCR.

2 RF CHANNEL

Press RF CHANNEL on the VCR.

The factory-preset RF channel appears in the display window.

The VCR signal is output through this channel to the TV.



3

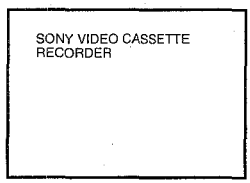
Turn on your TV and select a programme position for the VCR picture.

This channel will now be referred to as the video channel.

4 Tune the TV to the same channel as that shown in the display window so that the picture on the right appears on the TV screen.

Refer to your TV manual for tuning instructions.

If the picture does not appear clearly, see "To obtain a clear picture from the VCR" below.



5 RF CHANNEL

Press RF CHANNEL.

You have now tuned your TV to the VCR. From now on, whenever you want to play a tape, set the TV to the video channel.

To check to see if the TV tuning is correct

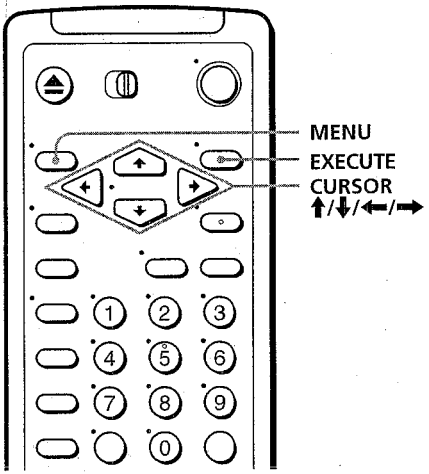
Set the TV to the video channel and press PROGRAM +/– on the VCR. If the TV screen changes to a different programme each time you press PROGRAM +/–, the TV tuning is correct.

To obtain a clear picture from the VCR

If the picture does not appear clearly in step 4 above, press PROGRAM +/– in step 4, so that another RF channel appears. Then tune the TV to the new RF channel until a clear picture appears.

Step 5

Presetting channels



First, we recommend that you preset the receivable channels in your area using automatic presetting. Then, if some channels could not be preset automatically, you can preset them manually; if there are any unwanted channels among the preset ones, you can disable the channels.

Before you start...

- Turn on the VCR and the TV.
- Set the TV to the video channel.

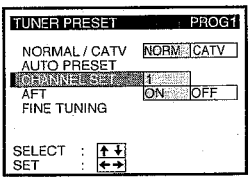
Presetting all receivable channels automatically

1 • MENU

• CURSOR

• EXECUTE

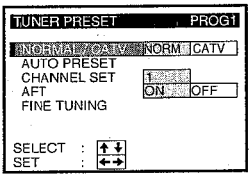
Press MENU, then press CURSOR ↑/↓ to move the cursor (I) to TUNER PRESET and press EXECUTE.



2 • CURSOR

Press CURSOR ↑/↓/←/→ to move the cursor (I) to NORMAL/CATV, then highlight NORM.

To preset CATV channels, highlight CATV.

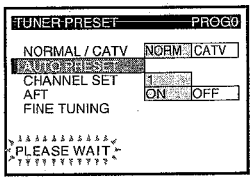


3 • CURSOR

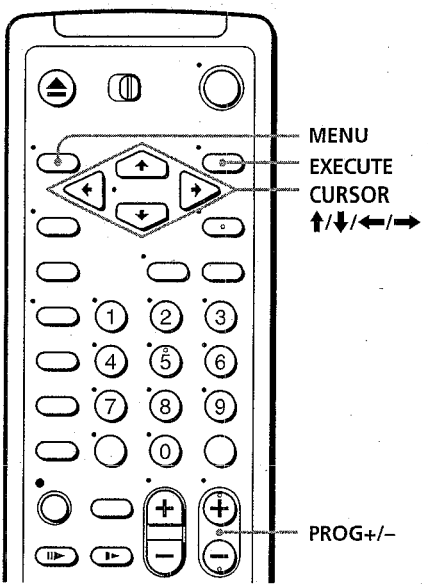
• EXECUTE

Press CURSOR ↑/↓ to move the cursor (I) to AUTO PRESET, then press EXECUTE.

All receivable channels are preset in numerical sequence. When no more receivable channels can be found, presetting stops and the picture from the lowest numbered channel is displayed on the TV screen.



Presetting channels manually

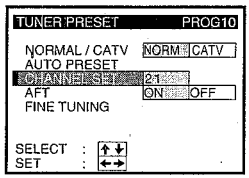


1 • MENU

• CURSOR

• EXECUTE

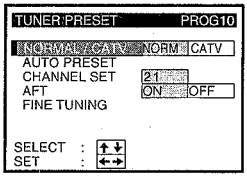
Press MENU, then press CURSOR ↑/↓ to move the cursor (I) to TUNER PRESET and press EXECUTE.



2 • CURSOR

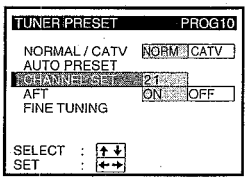
Press CURSOR ↑/↓/←/→ to move the cursor (I) to NORMAL/CATV, then select NORM.

To preset CATV channels, select CATV.



3 • CURSOR

Press CURSOR ↑/↓ to move the cursor (I) to CHANNEL SET.

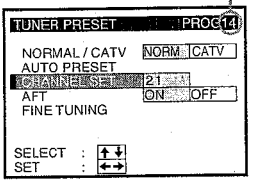


continued

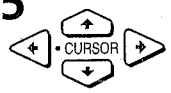
4 • PROG

Press PROG +/– to select the programme position.

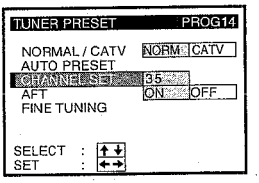
Selected programme position



5 • CURSOR



Press CURSOR ➡ repeatedly until the channel you want is displayed. Pressing CURSOR ⬅ goes back to the previous channels.



The channels are scanned in the following order:

Channel coverage	SLV-X827AS	SLV-X827NZ
VHF	AS0 to AS12, AS5A, AS9A	NZ1 to NZ11, R1 to R12
UHF	AS28 to AS69	E21 to E69
CATV (TV distribution)	S1 to S41, S01 to S05	S1 to S41, S01 to S05

If you know the number of the channel you want, press the programme number buttons. For example, for channel 5, first press "0" and then press "5."

6 To allocate another channel to another programme position, repeat steps 4 and 5.

7 • EXECUTE

Press EXECUTE.

Disabling unwanted programme positions

After tuning the TV channels, you can disable unused programme positions. The disabled positions will be skipped later when you press the PROG +/– buttons. You can also disable unwanted programme positions using the SET UP CH AND G-CODE menu (page 16).

1 In step 5 above, press programme number button "0" twice to display the number "0" beside CHANNEL SET.

2 Press EXECUTE.

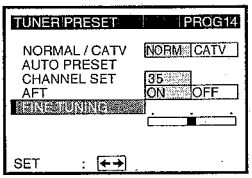
If the picture is not clear

Normally, the Auto Fine Tuning (AFT) function automatically tunes in channels clearly. If, however, the picture is not clear, you may also use the manual tuning function.

1 Press PROG +/– to select the programme number for which you cannot obtain a clear picture.

2 Press MENU, then select TUNER PRESET and press EXECUTE.

3 Select FINE TUNING. The fine tuning meter appears.



4 Press CURSOR ← / → to get a clearer picture, then press EXECUTE.

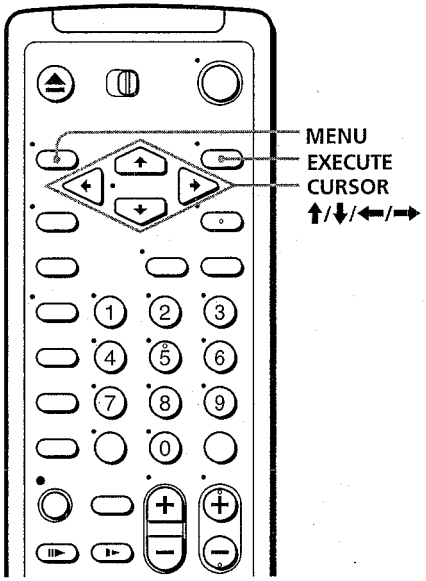
Note that the AFT (Auto Fine Tuning) setting switches to OFF.

Note

- The menu disappears automatically if you don't proceed for more than a few minutes.

Step 6

Setting up G-CODE



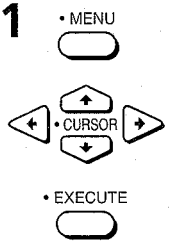
G-CODE is a feature in Sony VCRs that simplifies programming the VCR to make timer recordings. To use G-CODE, each programme position needs to be matched with its G-CODE guide channel. To get the guide channel numbers, look in the programme guide for your area that features G-CODE numbers.

- If you want to record satellite broadcasts using G-CODE, see page 18.

Before you start...

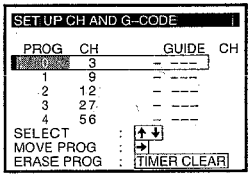
- Turn on the VCR and the TV.
- Set the TV to the video channel.

1

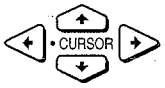


Press MENU, then press CURSOR ↑/↓ to move the cursor (I) to SET UP CH AND G-CODE and press EXECUTE.

The preset channels are displayed on the screen.

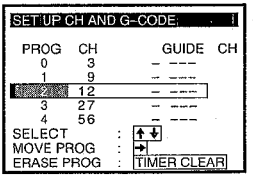


2



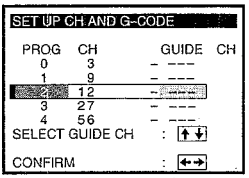
Press CURSOR ↑/↓ to move the cursor (I) to the row on which you want to set the guide channel.

To display other pages for programme positions 5 to 49 (SLV-X827AS) or 6 to 50 (SLV-X827NZ), press CURSOR ↑/↓ repeatedly.



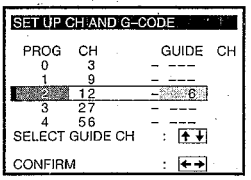
3 • CURSOR

Press CURSOR ➡ twice to highlight the guide channel column.



4 • CURSOR

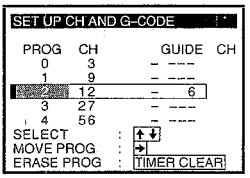
Press CURSOR ↑/↓ to select the guide channel number assigned in the programme guide.



5 • CURSOR

Press CURSOR ⬅/➡ to confirm the setting.

The cursor (**I**) appears in the leftmost column.



6

To set the guide channel of another station, repeat steps 2 to 5.

If you want to change the programme positions of the stations, proceed to step 2 of "Step 7: Changing/disabling programme positions" on page 19.

7 • EXECUTE

Press EXECUTE.

continued

Setting up G-CODE for satellite broadcasts

When your satellite tuner is connected via the AERIAL IN connector, first you have to set the programme position for each satellite channel using the TUNER PRESET menu. Then set the guide channel number for each satellite channel using the SET UP CH AND G-CODE menu.

If your satellite tuner is connected via the LINE-1 IN jacks, you don't have to set programme positions nor guide channel numbers for satellite channels. Skip the following operations.

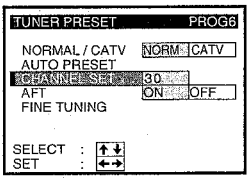
1 Turn on the satellite tuner.

2 Press MENU, then select TUNER PRESET and press EXECUTE.

3 Press PROG +/– to select a programme position you want to use for watching a satellite channel.

4 Select CHANNEL SET, then press CURSOR → to tune the VCR to the satellite tuner.

The channel number displayed beside CHANNEL SET is used for receiving all satellite broadcasts from the satellite tuner.



5 Press PROG +/– to select another programme position for another satellite channel, and press the programme number buttons to enter the same channel number as the one displayed in step 4.

Repeat this step for all satellite channels.

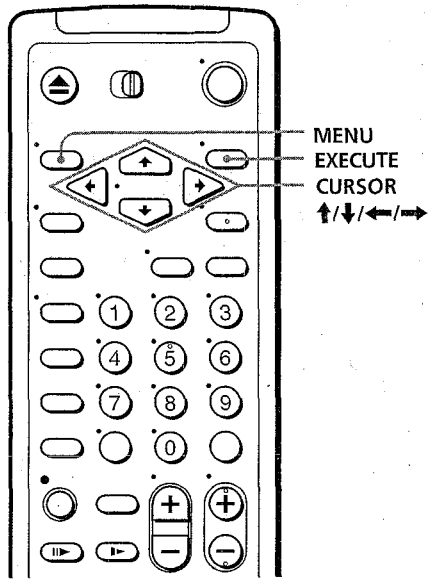
6 Set the guide channel number for each programme position assigned to the satellite channel, following the procedures in "Step 6: Setting up G-CODE" on page 16.

Notes

- The menu disappears automatically if you don't proceed for more than a few minutes.
- If you inadvertently entered a guide channel number, press CURSOR ↑/↓ repeatedly to reset the "GUIDE CH" column to "---." "---" appears between 1 and 255.
- The VCR does not allow entering the guide channel number, if the same number has been set.
- If you use a satellite tuner connected via the LINE-1 IN jacks, you don't have to setup G-CODE. Just record a satellite programme using G-CODE, and the VCR automatically records the programme from the LINE-1 IN jacks.
- When you record a satellite broadcast using G-CODE, you need to select the desired channel on the satellite tuner manually.

Step 7

Changing/ disabling programme positions



After setting the channels and G-CODE guide channels, you can change the programme positions as you like. If any programme positions are unused or contain unwanted channels, you can disable them.

Before you start...

- Turn on the VCR and the TV.
- Set the TV to the video channel.

Changing programme positions

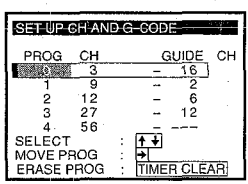
e.g. Moving the programme position from 2 to 0

1 • MENU

• CURSOR

• EXECUTE

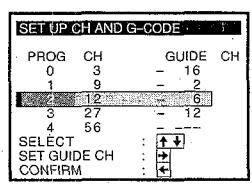
Press MENU, then press CURSOR ↑/↓ to move the cursor (I) to SET UP CH AND G-CODE and press EXECUTE.



2 • CURSOR

Press CURSOR ↑/↓ to move the cursor (I) to the row on which you want to change the programme position, then press CURSOR →.

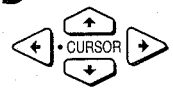
To display other pages for programme positions 5 to 49 (SLV-X827AS) or 6 to 50 (SLV-X827NZ), press CURSOR ↑/↓ repeatedly.



continued

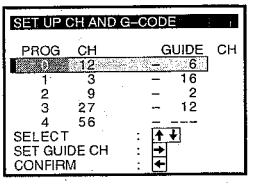
Step 7: Changing/disabling programme positions (continued)

3

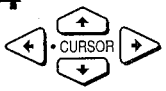


Press CURSOR ↑/↓ until the selected channel and guide channel row moves to the desired programme position.

The selected channel and guide channel are inserted at the new programme position and the intermediate channels are displaced to fill the gap.



4



Press CURSOR ← to confirm the setting.

5

To change the programme position of another station, repeat steps 2 to 4.

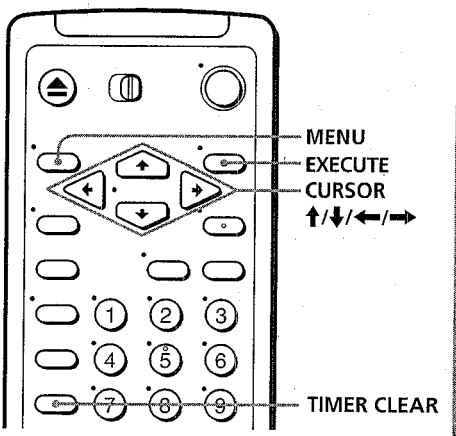
6 • EXECUTE

Press EXECUTE.

Disabling unwanted programme positions

Note

- Be sure to select the programme position you want to disable correctly. If you disable a programme position by mistake, you need to reset that channel manually.

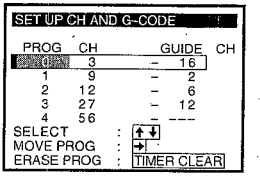


1 • MENU

• CURSOR

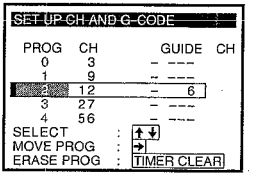
• EXECUTE

Press MENU, then press CURSOR ↑/↓ to move the cursor (I) to SET UP CH AND G-CODE and press EXECUTE.



2 • CURSOR

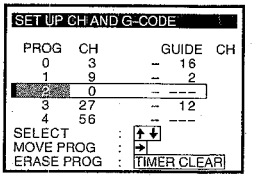
Press CURSOR ↑/↓ to move the cursor (I) to the row on which you want to disable.



3 TIMER CLEAR

Press TIMER CLEAR.

The selected row will be cleared as shown on the right.



4

Repeat steps 2 and 3 for any other programme positions you want to disable.

5 • EXECUTE

Press EXECUTE.

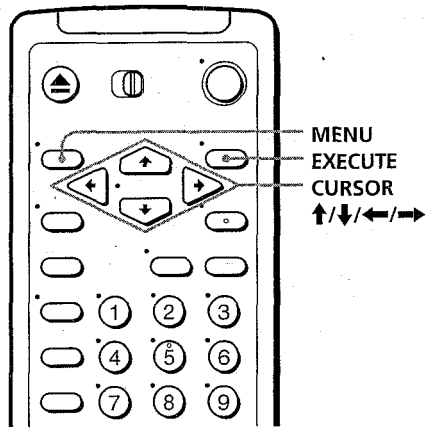
Step 8

Setting the clock

You must set the time and date on the VCR to be able to use the timer recording features properly.

Before you start...

- Turn on the VCR and the TV.
- Set the TV to the video channel.

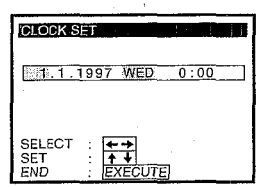


1 • MENU

• CURSOR

• EXECUTE

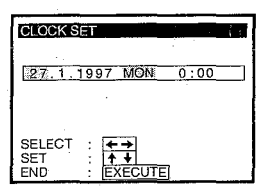
Press MENU, then press CURSOR ↑/↓ to move the cursor (**I**) to CLOCK SET and press EXECUTE.



2 • CURSOR

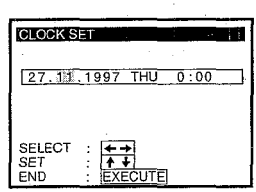
Press CURSOR ↑/↓ to set the date.

The day of the week is set automatically.



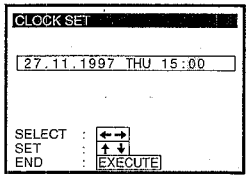
3 • CURSOR

Press CURSOR → to highlight the month and set the month using CURSOR ↑/↓.



4 • CURSOR

Set the year, hour and minutes in sequence, using CURSOR ➡ to highlight the item to be set, and CURSOR ⬆/⬇ to select the digits.



5 • EXECUTE

Press EXECUTE to start the clock.

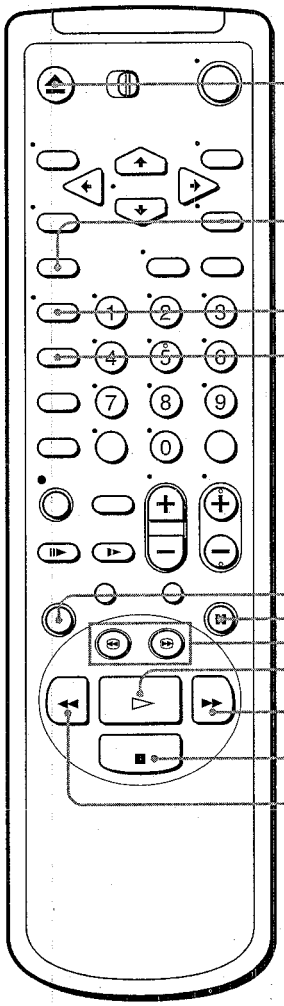
Tip

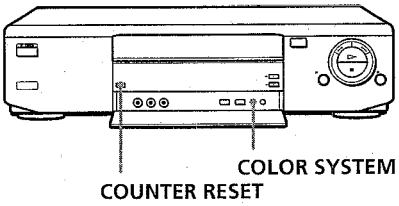
- To change the digits during setting, press CURSOR ⬅ to return to the item to be changed, and select the digits using CURSOR ⬆/⬇.

Note

- The menu disappears automatically if you don't proceed for more than a few minutes.

Playing a tape

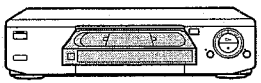




1 Turn on your TV and set it to the video channel.

2 Insert a tape.

The VCR turns on and starts playing automatically if you insert a tape with its safety tab removed.



3 PLAY ▷

Press ▷ PLAY.

When the tape reaches the end, it will rewind automatically.

Additional tasks

To	Press
Stop play	■ STOP
Pause play	❚❚ PAUSE
Resume play after pause	❚❚ PAUSE or ▷ PLAY
Search forward	▶▶ FF or ⊕ SEARCH during playback
Search backward	◀◀ REW or ⊖ SEARCH during playback
Fast-forward the tape	▶▶ FF during stop
Rewind the tape	◀◀ REW during stop
Eject the tape	⏏ EJECT

Replaying a recently watched scene

You can immediately rewind and playback the scene you want to watch again.

During playback, press REPLAY up to four times. The VCR rewinds the tape 10 seconds for each press of the button, and restarts playback.

To set the colour system

If streaks appear during playback, press COLOR SYSTEM on the VCR to conform to the system that the tape was recorded in. (Normally, the colour system is correctly set whenever the tape is inserted.)

If your tape was recorded in	Press COLOR SYSTEM until the indication below appears in the display window
PAL	PAL
NTSC	NTSC

continued

To play an NTSC-recorded tape

Set NTSC PB at the rear of the VCR according to the colour system of your TV.

If your TV is	Set NTSC PB to
PAL	ON PAL TV
NTSC 4.43	NTSC 4.43

To use the time counter

At the point on the tape that you want to find later, press COUNTER RESET. The counter in the display window resets to "0H00M00S." Search for the point afterwards by referring to the counter.

To display the counter on the TV screen, press DISPLAY.

Notes

- The counter resets to "0H00M00S" whenever a tape is reinserted.
- The counter stops counting when it comes to a portion with no recording.
- If a tape has portions recorded in both PAL and NTSC systems, the time counter reading will not be correct. This is due to the difference between the counting cycles of the two video systems.
- Depending on your TV, the following may occur while playing an NTSC-recorded tape:
  - the picture is black and white
  - the picture shakes
  - no picture appears on the TV screen
  - black streaks appear horizontally on the TV screen
  - the colour density increases or decreases.

Turning on the VCR and TV, and starting playback automatically (Trinitron TV Synchro Play)

You can only use this function if your TV is made by Sony (Trinitron TV).

How to connect to use this function

Connect the VCR and TV with the audio/video cable (see "To a TV that has phono type audio/video input jacks" on page 9.) Be sure to connect the audio/video cable to the VIDEO IN 1 jacks on the TV if the TV has two inputs or more. The TV must be placed where it will respond to the remote commander while you are pointing it at the VCR.

Operation

Make sure that the TV's power is in standby mode.

Press TRINITRON TV SYNCHRO PLAY and hold the remote commander in place for about two seconds.

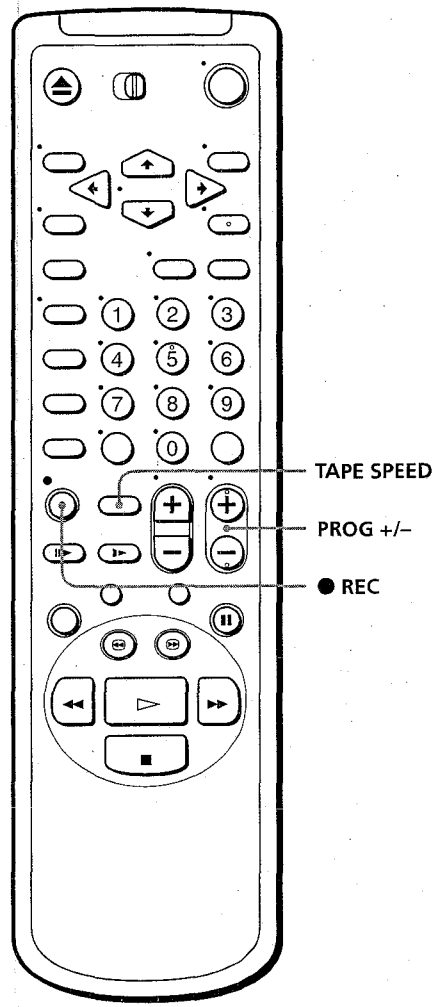
The VCR and TV turn on, and the TV is set to VCR reception. If there is a tape in the VCR, playback starts automatically.

Notes

- If the Trinitron TV Synchro Play function does not work properly:
  - Wait a few moments, and press the button again.
  - Replace both of the batteries with new ones, and press the button again.

  Note that this function may not operate some Sony TVs because of the remote commander's signal limitations.
- Do not press TRINITRON TV SYNCHRO PLAY while playing back a video tape. If you do so, the TV's input source will momentarily switch to the TV's tuner.

Recording TV programmes

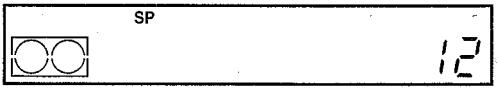


1 Turn on your TV and set it to the video channel.

2 Insert a tape with its safety tab in place.

3 • PROG

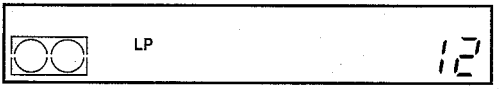
Press PROG +/– to select the programme position you want to record.



4 TAPE SPEED

Press TAPE SPEED to select the tape speed, SP or LP.

LP provides recording time twice as long as SP, however, SP produces better picture and audio quality.



5 ● REC

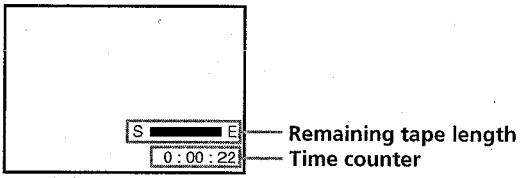
Press ● REC to start recording.

To stop recording

Press ■ STOP.

To check the remaining tape length

Press DISPLAY during playback or recording. The white bar indicates the approximate length of tape remaining.



To watch another TV programme while recording

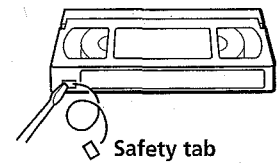
1 If the TV is connected to the VCR using an audio/video cable, set the TV to TV input. If the TV is connected to the VCR using only the aerial cable, skip this step.

2 Select another programme position on the TV.

continued

To save a recording

To prevent accidental erasure, break off the safety tab as illustrated. To record on a tape again, cover the tab hole with adhesive tape.



Tips

- To select a programme position, you can use the programme number buttons on the remote commander. For two-digit numbers, press the -/-- (ten's digit) button followed by the number buttons.
- You can select a video source from the LINE-1 IN or LINE-2 IN jacks using INPUT SELECT.
- The display appears on the TV screen indicating information about the tape, but the information won't be recorded on the tape.
- If you don't want to watch TV while recording, you can turn off the TV.

Notes

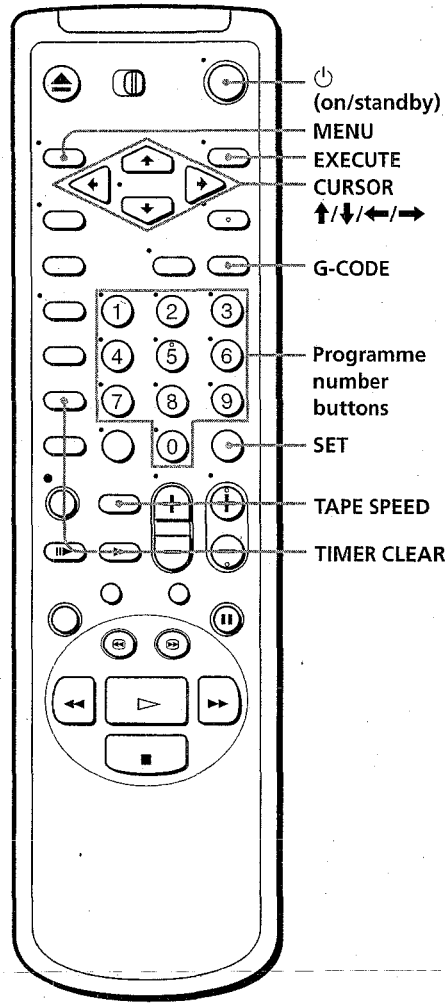
- The display does not appear during still (pause) mode or slow-motion playback.
- The display will not appear while playing an NTSC-recorded tape.

Recording TV programmes using G-CODE

Just enter the programme's G-CODE number listed in the TV programme guide. The date, times and programme position of that programme are set automatically. You can preset up to eight programmes at a time.

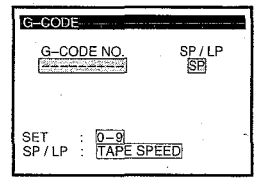
Before you start...

- Check that the VCR clock is set to the correct time.
- Insert a tape with its safety tab in place. Make sure the tape is longer than the total recording time.
- Turn on your TV and set it to the video channel.



1 G-CODE

Press G-CODE.

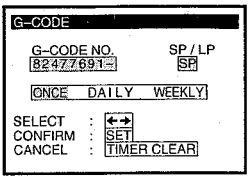


continued

2 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⓪

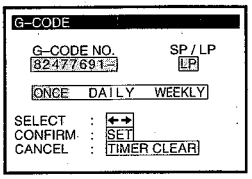
Press the programme number buttons to enter the programme's G-CODE number.

If you make a mistake, press TIMER CLEAR and re-enter the correct number.



3 TAPE SPEED

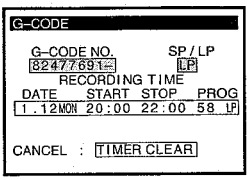
Press TAPE SPEED to select SP or LP.



4 CURSOR, SET

Select ONCE, DAILY or WEEKLY by using CURSOR ←/→, then press SET:

To record	Select
Only once	ONCE
Everyday Monday to Friday	DAILY
Once a week	WEEKLY



The date, start and stop times, programme position, and tape speed appear on the TV screen.

If the information is not correct, press TIMER CLEAR to cancel the setting.

5 To enter another setting, repeat steps 1 to 4.

6 ⏻

Press ⏻ to turn off the VCR.

The TIMER indicator appears in the display window and the VCR stands by for recording.

To stop recording

To stop the VCR while recording, press ■ STOP.

To record satellite broadcasts

If you connect the satellite tuner and the VCR, you can record satellite programmes.

1. Turn on the satellite tuner.
2. On the satellite tuner, select the satellite programme for which you wish to make a timer setting.
3. Repeat the steps described above.
4. Keep the satellite tuner turned on until the VCR finishes recording the satellite programme for which you have made a timer setting.

To use the VCR after setting the timer

To use the VCR before a timer recording begins, just press ⏻. The TIMER indicator turns off and the VCR switches on. Remember to press ⏻ to reset the VCR after using the VCR.

You can also do the following tasks while the VCR is recording:

- Reset the counter.
- Display tape information on the TV screen.
- Check the timer settings.
- Watch another TV programme.

Tip

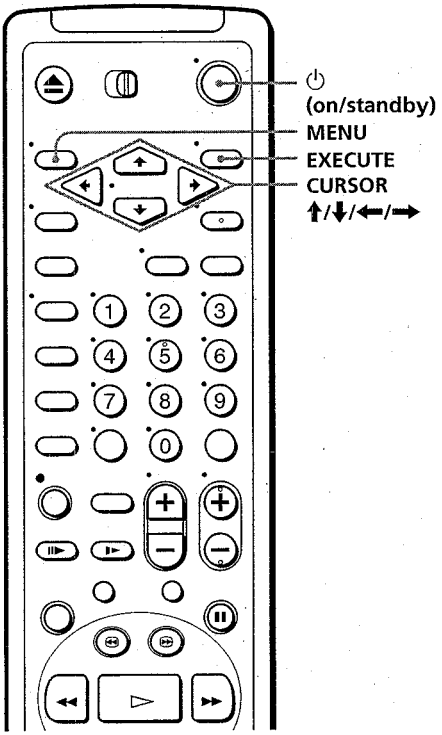
- To cancel the procedure, press G-CODE before pressing SET.

Note

- If the VCR beeps repeatedly, this means that:
  - The G-CODE number is incorrect.
  - ONCE, DAILY, or WEEKLY was selected incorrectly. You cannot select DAILY or WEEKLY for a programme that airs more than seven days ahead.

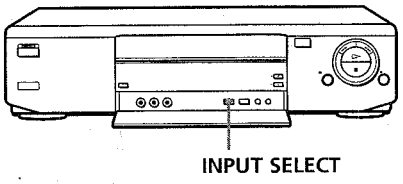
Setting the timer manually

If G-CODE is not available in your area, follow the instructions below to set the timer to record programmes.

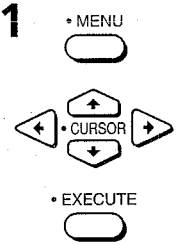


Before you start...

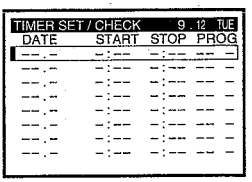
- Check that the VCR clock is set to the correct time.
- Insert a tape with its safety tab in place. Make sure the tape is longer than the total recording time.
- Turn on your TV and set it to the video channel.



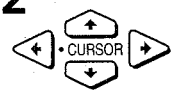
1



Press MENU and select TIMER SET/CHECK, then press EXECUTE.



2

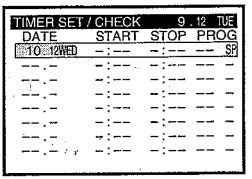


Set the date, start and stop times, programme position, and tape speed:

1 Press CURSOR ➡ to highlight each item in turn.

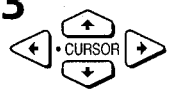
2 Press CURSOR ↑/↓ to set each item.

To correct a setting, press CURSOR ← to return to that setting and reset.



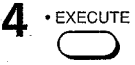
To record the same programme every day or the same day every week, press CURSOR ↓ while the date is highlighted. For details, see "Daily/weekly recording" on this page.

To record from a source connected to the LINE-1 IN or the LINE-2 IN jacks, press INPUT SELECT on the VCR to display "LINE1" or "LINE2" in the "PROG" position.

3 

Press CURSOR → to confirm the setting.

The cursor (I) appears at the beginning of the line. To enter another setting, move the cursor to the next line and repeat step 2.

4 

Press EXECUTE.

5

Press ⏻ to turn off the VCR.

The TIMER indicator appears in the display window and the VCR stands by for recording.

To record from other equipment, leave the connected equipment switched on.

To stop recording

To stop the VCR while recording, press ■ STOP.

Daily/weekly recording

In step 2 above, press CURSOR ↓ to select the recording pattern. Each time you press CURSOR ↓, the indication changes as shown below. Press CURSOR ↑ to change the indication in reverse order.

the current date → SUN-SAT → MON-SAT → MON-FRI → EVERY SAT ..... → EVERY MON → EVERY SUN → 1 month later →(dates count down) → the current date

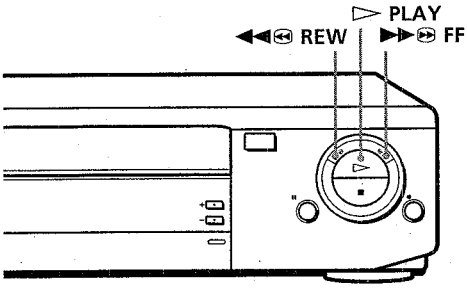
Tips

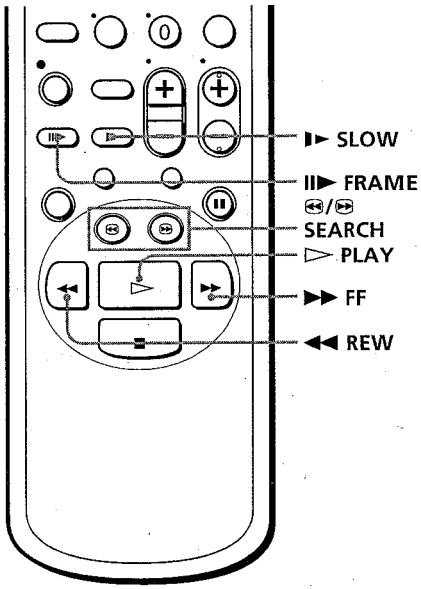
- To set the programme position, you can also use the PROG +/– or programme number buttons.
- To set the tape speed, you can also use TAPE SPEED.

Note

- "TIMER" flashes in the display window when you press ⏻ with no tape inserted.

Playing/searching at various speeds





Playback options	Operation
Fast-forward / rewind	During stop, press ▶▶ FF or ◀◀ REW.
View the picture during fast-forward or rewind	During fast-forward, hold ▶▶ FF down. During rewind, hold ◀◀ REW down.
Play at high speed	During playback or pause, press ⏩ SEARCH or ⏪ SEARCH. To change direction, press the other one.
Play in slow motion	During playback or pause, press ▮▶ SLOW.
Play frame by frame	During pause, press ▮▮▶ FRAME. Hold the button down to play one frame each second.
Rewind and start play	During stop, hold ◀◀ REW on the VCR, and press ▷ PLAY on the VCR.

To resume normal playback

Press ▷ PLAY.

Tip

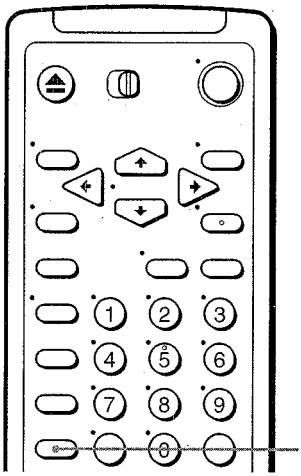
- Adjust the picture using TRACKING +/– on the VCR if:
  - streaks appear while playing in slow motion
  - bands appear at the top or bottom while pausing
  - the picture shakes while pausing.

Notes

- The playback sound is muted during these operations.
- In LP mode, noise may appear or there may be no colour.

Recording TV programmes using the quick timer

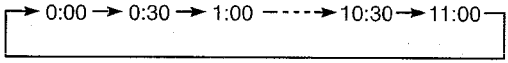
After starting recording in the normal way, you can have the VCR stop recording automatically after a specified duration.



1 While recording, press QUICK TIMER once.

2 Press QUICK TIMER repeatedly to set the duration.

Each press advances the time in increments of 30 minutes.



The duration decreases minute by minute to 0:00, then the VCR stops recording and turns off automatically.

To extend the duration

Press QUICK TIMER repeatedly to set to the new duration.

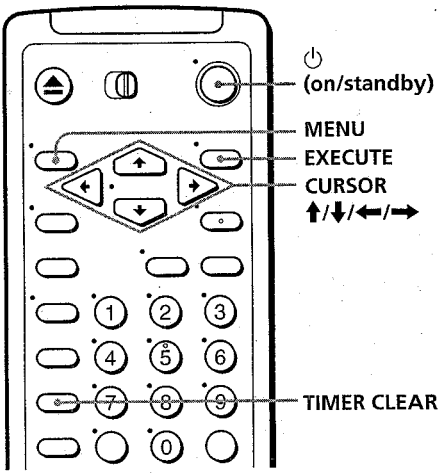
To stop recording

To stop the VCR while recording, press ■ STOP.

Tip

- You can also set the quick timer and start recording during the stop mode.

Checking/ changing/ cancelling timer settings



Before you start...

- Turn on your TV and set it to the video channel.

1 Press ⏻ to turn on the VCR.

2 Press MENU, then select TIMER SET/CHECK:

- If you want to change a setting, go on to the next step.
- If you do not need to change the settings, press EXECUTE, then turn off the VCR to return to recording standby.

TIMER SET / CHECK			9.12 TUE
DATE	START	STOP	PROG
10.12WED	20:00	22:00	58 LP
6.1TUE	7:00	8:00	6 SP
28.12SUN	8:30	10:15	LINE1 LP
17.12WED	9:58	12:00	LINE2 SP
MON—SAT	0:12	13:00	27 LP
EVERY SUN	23:00	0:00	LINE1 SP
--.-	-:--	-:--	-- -
--.-	-:--	-:--	-- -

3 Press CURSOR ↑/↓ to select the setting you want to change or cancel:

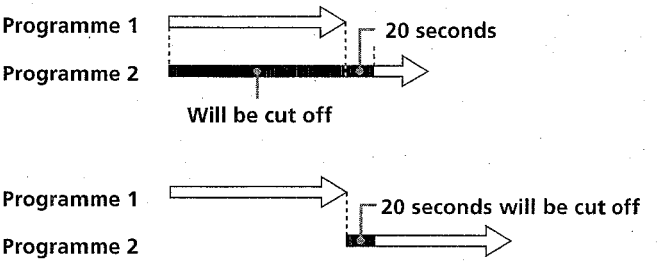
- To change the setting, press CURSOR ←/→ to highlight the item you want to change, and press CURSOR ↑/↓ to reset it. Then, press CURSOR → repeatedly until the cursor (I) appears at the top of the line.
- To cancel the setting, press TIMER CLEAR.

4 Press EXECUTE.

If any settings remain, turn off the VCR to return to recording standby.

When the timer settings overlap

The programme that starts first has priority and the second programme starts recording only after the first programme has finished. If the programmes start at the same time, the programme listed first in the menu has priority.



Recording stereo and bilingual programmes

In ZWEITON (German stereo) system

This VCR automatically receives and records stereo and bilingual programmes based on the ZWEITON system. When a stereo or bilingual programme is received, the STEREO indicator appears in the display window.

To select bilingual sound while recording

Press AUDIO MONITOR to select the sound you want.

To listen to	On-screen display	Display window
Main	MAIN	STEREO
Sub	SUB	STEREO
Main and sub	MAIN/SUB	STEREO

In NICAM system (SLV-X827NZ only)

This VCR receives and records stereo and bilingual programmes based on the NICAM system (the NICAM indicator appears). When a stereo or bilingual programme is received, the STEREO indicator appears in the display window.

To record a NICAM programme, HIFI AUDIO in the SET UP MENU should be set to NICAM (initial setting). To check the menu setting, see page 44 for details.

To select the sound while recording

Press AUDIO MONITOR to select the sound you want.

Stereo programme

To listen to	On-screen display	Display window
Stereo	STEREO	STEREO
Standard sound*	No indicator	No indicator

* Usually the mixed sound of left and right channels (monaural)

Bilingual programme

To listen to	On-screen display	Display window
Main	MAIN	STEREO
Sub	SUB	STEREO
Main and sub	MAIN/SUB	STEREO
Standard sound*	No indicator	No indicator

* Usually the main sound (monaural)

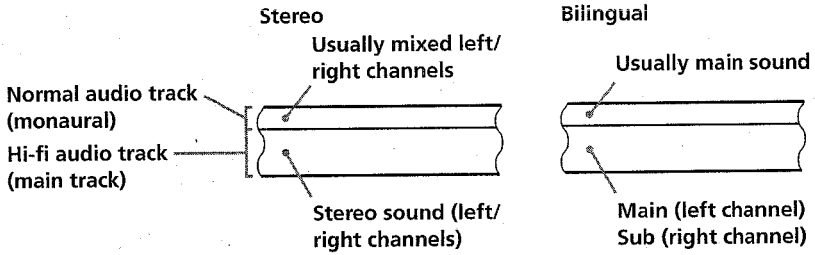
Selecting the sound during playback

Press AUDIO MONITOR to select the sound you want.

To listen to	On-screen display	Display window
Stereo/main and sub (left and right channels)	STEREO	STEREO
Left channel/main	LCH	STEREO
Right channel/sub	RCH	STEREO
Standard sound	No indicator	No indicator

How sound is recorded on a video tape

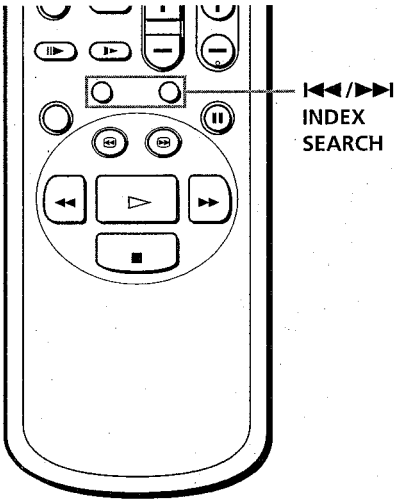
The VCR records sound onto two separate tracks. Hi-fi audio is recorded onto the main track along with the picture. Monaural sound is recorded onto the normal audio track along the edge of the tape.



Notes

- To listen to playback sounds in stereo, you must use the AUDIO OUT connections.
- When you play a tape recorded in monaural, the sound is heard in monaural regardless of the AUDIO MONITOR setting.
- If the AUDIO MONITOR button does not function, check that AUDIO MIX in the SET UP MENU is set to OFF.
- If HIFI AUDIO is set to STD, the standard sound will be recorded on both the hi-fi and normal audio tracks. Pressing AUDIO MONITOR will not change the sound.

Searching using the index function

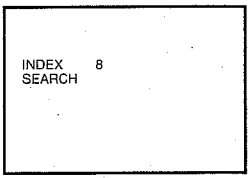


The VCR marks the tape with an index signal at the point where each recording begins. Use these signals as references to find a specific recording. The VCR can search up to 99 index signals ahead of or behind the current position.

1 Insert an indexed tape into the VCR.

2 Press I◀◀ / ▶▶I INDEX SEARCH repeatedly to specify how many index signals ahead or behind you want to search:

- To search ahead, press ▶▶I INDEX SEARCH.
- To search backwards, press I◀◀ INDEX SEARCH.



The VCR starts searching and the index number on the TV screen counts down to zero. Playback starts automatically from that point.

To stop searching

Press ■ STOP.

Note

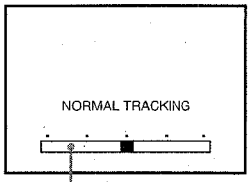
- No index signal will be added when recording starts from recording pause. However, an index signal will be marked if you change the channel during recording pause.

Adjusting the picture

Adjusting the tracking

Although the VCR automatically adjusts the tracking when playing a tape (the tracking indicator ⊠ flashes in the display window, then goes off), distortion may occur if the tape was recorded in poor condition. If so, manually adjust the tracking.

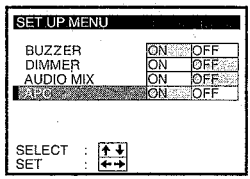
Press TRACKING +/– buttons on the VCR to display the tracking meter. The distortion should disappear as you press one of the two buttons. (The ⊠ indicator lights up.) To resume automatic tracking adjustment, eject the tape and reinsert it.



Tracking meter

About Adaptive Picture Control (APC)

Adaptive Picture Control (APC) automatically improves recording and playback quality by adjusting the VCR to the condition of the video heads and tape. To maintain better picture quality, we recommend that you set APC to ON in the SET UP MENU (with the APC indicator in the display window lit).



APC playback

The APC function automatically works on all types of tapes, including rental tapes and tapes that were not recorded with APC.

APC recording

Whenever you insert a tape and first start recording, the VCR adjusts to the tape using the APC function (the APC indicator flashes rapidly). This adjustment is retained until the tape is ejected.

To deactivate the APC

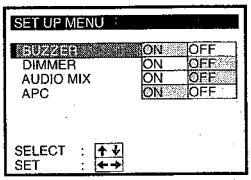
Press MENU and select SET UP MENU, then set APC to OFF. The APC indicator in the display window goes off.

Note

- There is a delay of a few seconds before the VCR actually starts recording while the VCR analyses the tape. To avoid the delay, first set the VCR to recording pause (the APC indicator flashes slowly) and press ● REC to have the VCR analyse the tape (the APC indicator flashes rapidly). After the APC indicator stops flashing, press ❚❚ PAUSE to start recording immediately. If you want to start recording quickly without using the APC function, first set the VCR to recording pause (the APC indicator flashes slowly) and press ❚❚ PAUSE to start recording.

Changing menu options

1 Press MENU, then select SET UP MENU.



2 Press CURSOR ↑/↓ to select the option to change, then press CURSOR ←/→ to change the setting.

3 Press EXECUTE to return to the original screen.

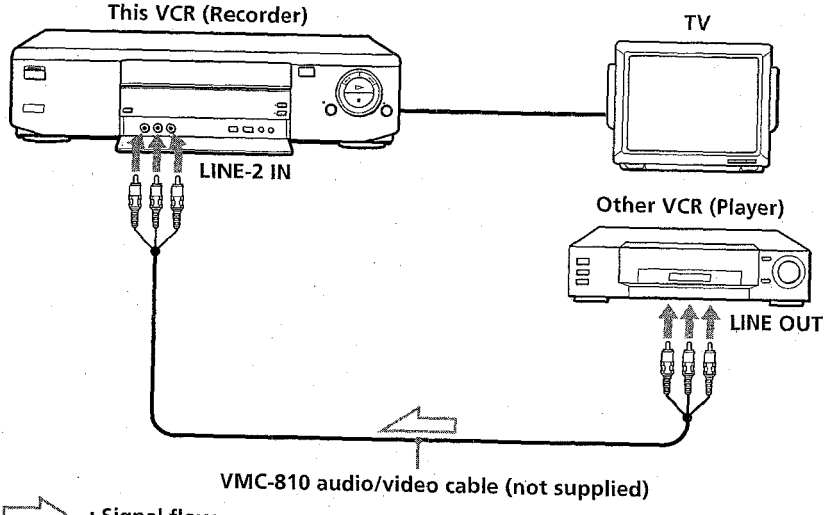
Menu choices

Initial settings are indicated in bold print.

Menu option	Set this option to
BUZZER	**ON** to output a beep sound when all illogical operation is made. OFF to deactivate it.
DIMMER	ON to make the display window dim, **OFF** to make it brighter.
HIFI AUDIO (SLV-X827NZ only)	STD to record standard sound on the hi-fi audio track. **NICAM** to record NICAM broadcasts on the hi-fi audio track. For details, see page 40.
AUDIO MIX	ON to listen to the hi-fi and normal audio tracks at the same time. The AUDIO MONITOR button will not function. **OFF** to listen to hi-fi and normal audio tracks separately. Select the sound using the AUDIO MONITOR button.
APC	**ON** to switch on the APC (Adaptive Picture Control) function and improve picture quality, OFF to switch off APC.

Editing with another VCR

How to connect to record on this VCR



How to connect to a stereo system

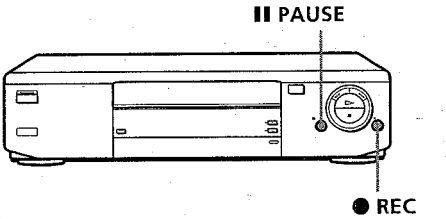
Connect LINE-2 IN AUDIO on this VCR to the audio output jacks on the stereo system, using the RK-C510KS audio cable (not supplied).

Tips

- Make sure you connect the plugs to jacks of the same colour.
- If the other VCR is a monaural type, connect the audio plug to the AUDIO L (white) jack. The sound is recorded on both right and left channels. When connecting to the AUDIO R (red) jack, the sound is recorded only on the right channel.
- If you connected this VCR to both the LINE IN and LINE OUT jacks of the other VCR, select the input correctly to prevent a humming noise.
- You can also use the LINE-1 IN jacks instead.

continued

Operation (when recording on this VCR)



Before you start editing

- Turn on your TV and set it to the video channel.
- Press INPUT SELECT to display "L2" in the display window.
- Press TAPE SPEED to select the tape speed, SP or LP.

1 Insert a source tape with its safety tab removed into the other (playback) VCR. Search for the point to start playback and set it to playback pause.

2 Insert a tape with its safety tab in place into this (recording) VCR. Search for the point to start recording and press II PAUSE.

3 Press ● REC on this VCR and set it to recording pause.

4 To start editing, press the II PAUSE buttons on both VCRs at the same time.

To stop editing

Press the ■ STOP buttons on both VCRs.

Tips

- To edit more precisely, press the II PAUSE buttons on the VCRs to release pause.
- To cut out unwanted scenes while editing, press II PAUSE on this VCR when an unwanted scene begins. When it ends, press II PAUSE again to resume recording.

Note

- If you start recording following the procedure above, the VCR won't start recording with the APC function. To record a tape with the APC function, press ● REC again during recording pause in step 3 so that the VCR analyses the tape. Then when you start recording in step 4, press II PAUSE after the APC indicator stops flashing. If you press II PAUSE before the APC indicator stops flashing, the APC function is cancelled.

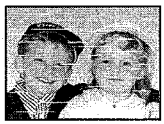
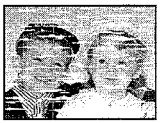
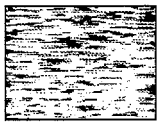
Troubleshooting

If you have any questions or problems not covered below, please consult your nearest Sony service facility.

	Symptom	Remedy
Power	The ON/STANDBY switch does not function.	• Connect the mains lead to mains securely.
	The power is turned on but the VCR does not operate.	• Moisture condensation occurs. Turn the power off, unplug the mains lead, and leave the VCR to dry for over one hour.
Clock	The clock has stopped and "–:– –" lights in the display window.	• The clock stops if the VCR is disconnected from the mains for more than an hour. Reset the clock (and timer).
Playback	The playback picture does not appear on the TV screen.	• Make sure the TV is set to the video channel. If you are using a monitor, set it to video input.
	The picture is not clear.	• Adjust the tracking with the TRACKING +/– buttons. • Make sure the colour system is correctly set to the system that the tape was recorded in. • The video heads are dirty (see below). Clean the video heads using the Sony V-25CL video head cleaning cassette. If this cleaning cassette is not available in your area, have the heads cleaned at your nearest Sony service facility (a standard service charge will be required). Do not use a commercially available wet-type cleaning cassette, as it may damage the video heads. • The video heads may have to be replaced. Consult your local Sony service facility for more information.
	The picture rolls vertically during picture search.	• Adjust the vertical hold control on the TV or monitor.
	The picture has no sound.	• The tape is defective. Use a new tape.
	The sound is unstable or has an echo.	• When you play a tape with the same sound recorded on both the hi-fi and normal sound tracks, make sure the AUDIO MIX option in the SET UP MENU is set to OFF.

Symptoms caused by contaminated video heads

• Normal picture **• Rough picture** **• Unclear picture** **• No picture (or black & white screen appears)**

initial → **terminal**

continued

Troubleshooting (continued)

	Symptom	Remedy
Recording	No TV programmes appear on the TV screen.	• Make sure the TV is set to the video channel. If you are using a monitor, set it to video input.
	TV reception is poor.	• Adjust the TV aerial.
	The tape starts playing as soon as it is inserted.	• The safety tab has been removed. To record on this tape, cover the tab hole.
	The tape is ejected when you press ● REC.	• Check that the safety tab has not been removed.
	Nothing happens when you press ● REC.	• Make sure the tape is not at its end. • Select the correct source with the INPUT SELECT button on the VCR. Select a programme position when recording TV programmes; select "L1" or "L2" when recording from other equipment.
Timer recording	The timer does not operate.	• Check that the clock is set. • Make sure a tape has been inserted. • Check that the safety tab has not been removed. • Make sure the tape is not at its end. • Make sure a programme has been set for timer recording. • Make sure your timer settings have not already passed the current time. • Check that the satellite tuner is turned on. • The clock stops if the VCR is disconnected from the mains for more than an hour. Reset the clock and timer.
Others	No tape can be inserted.	• Check that a tape isn't already in the tape compartment.
	The remote commander does not function.	• Make sure you are pointing the remote commander at the remote sensor on the VCR. • Replace all the batteries in the remote commander with new ones if they are weak. • Make sure the TV/VIDEO remote control switch is set correctly.
	You cannot control other TVs.	• Set your TV's code number. The code number resets to 01 when you replace the batteries of the remote commander.
	The tracking indicator does not appear on the screen.	• The recording condition of the tape is very poor and tracking cannot be adjusted, or the NTSC system is being used.
	The VCR needs to be cleaned.	• Clean the cabinet, panel and controls with a dry, soft cloth, or a soft cloth slightly moistened with a mild detergent solution. Do not use any type of solvent, such as alcohol or benzine.

Specifications

System

Channel coverage
- SLV-X827AS:
- VHF AS0 to AS12, AS5A, AS9A
- UHF AS28 to AS69
- CATV S01 to S05, S1 to S41
- SLV-X827NZ:
- VHF NZ1 to NZ11, R1 to R12
- UHF E21 to E69
- CATV S01 to S05, S1 to S41

RF output signal
- UHF channels:
- 28 to 69 (SLV-X827AS)
- 21 to 69 (SLV-X827NZ)

Aerial out
- 75-ohm asymmetrical aerial socket

Inputs and outputs

LINE-1 IN and LINE-2 IN
- VIDEO IN, phono jack (1 each)
- Input signal: 1 Vp-p, 75 ohms, unbalanced, sync negative
- AUDIO IN, phono jack (2 each)
- Input level: 327 mVrms
- Input impedance: more than 47 kilohms

LINE OUT
- VIDEO OUT, phono jack (1)
- Output signal: 1 Vp-p, 75 ohms, unbalanced, sync negative
- AUDIO OUT, phono jack (2)
- Standard output: 327 mVrms
- Load impedance: 47 kilohms
- Output impedance: less than 10 kilohms

General

Power requirements
- 220 – 240 V AC, 50 Hz

Power consumption
- 20 W

Operating temperature
- 5°C to 40°C

Storage temperature
- –20°C to 60°C

Dimensions
- Approx. 430 × 109 × 308 mm (w/h/d) including projecting parts and controls

Mass
- Approx. 4.5 kg

Supplied accessories

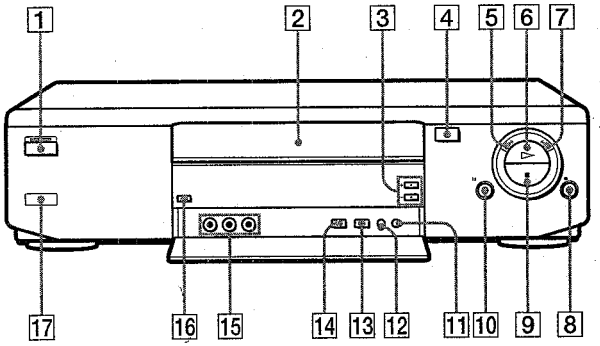
Remote commander (1)
R6 (size AA) batteries (2)
Aerial cable (1)

Design and specifications are subject to change without notice.

Index to parts and controls

Refer to the pages indicated in parentheses ( ) for details.

Front panel



1 ON/STANDBY switch/indicator (10)

2 Tape compartment

3 PROGRAM/TRACKING +/– buttons (10, 43)

4 ⏏ EJECT button (25)

5 ◀◀ REW button (25, 36)

6 ▷ PLAY button (25, 36)

7 FF ▶▶ button (25, 36)

8 ● REC button (29)

9 ■ STOP button (25, 29)

10 ❚❚ PAUSE button (25, 46)

11 RF CHANNEL button (10)

12 COLOR SYSTEM button (25)

13 TAPE SPEED button (29)

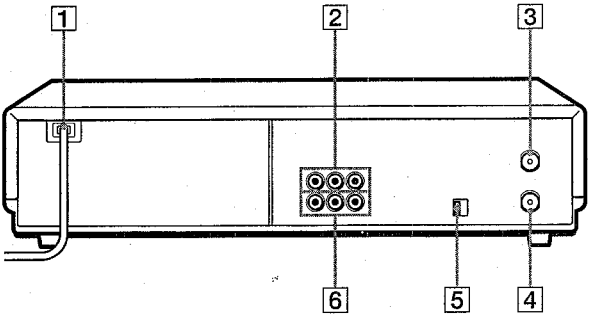
14 INPUT SELECT button (30, 35)

15 LINE-2 IN AUDIO L/R/VIDEO jacks (45)

16 COUNTER RESET button (26)

17 Remote sensor (5)

Rear panel



1 Mains lead (8)

2 LINE-1 IN AUDIO L/R/VIDEO jacks (45)

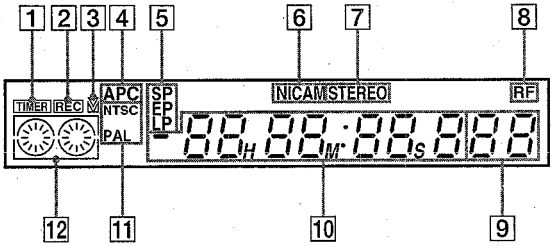
3 AERIAL OUT connector (8)

4 AERIAL IN connector (8)

5 NTSC PB switch (26)

6 LINE OUT AUDIO L/R/VIDEO jacks (9)

Display window



1 TIMER indicator (32, 35)

2 REC (Recording) indicator

3 M (Tracking) indicator (43)

4 APC indicator (43)

5 Tape speed indicator (29)

6 NICAM indicator (SLV-X827NZ only) (40)

7 STEREO indicator (40)

8 RF indicator (10)

9 Line/programme position indicator (10, 29)

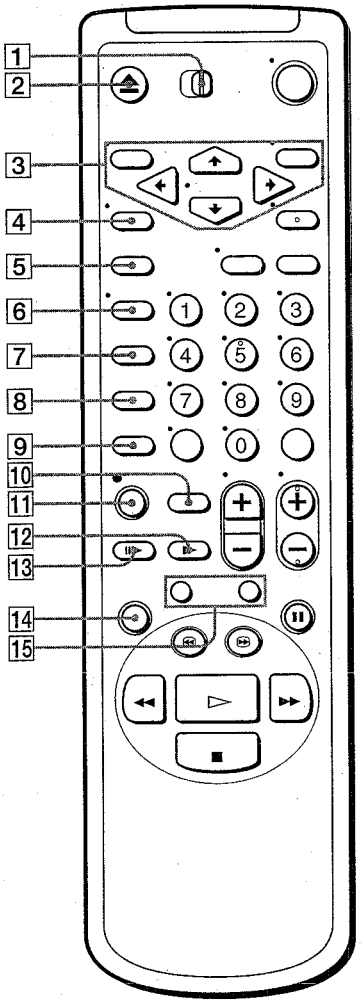
10 Time counter/clock (26)

11 Colour system indicator (25)

12 Tape indicator

continued

Remote commander



1 TV/VIDEO remote control switch (5)

2 ⏏ EJECT button (25)

3 Menu operation buttons (12)

MENU button
CURSOR ↑/↓/←/→ buttons
EXECUTE button

4 WIDE button (*For TV*) (7)

5 TRINITRON TV SYNCHRO PLAY button (27)

6 DISPLAY button (26, 29)

7 COUNTER RESET button (26)

8 TIMER CLEAR button (21, 32, 38)

9 QUICK TIMER button (37)

10 TAPE SPEED button (29)

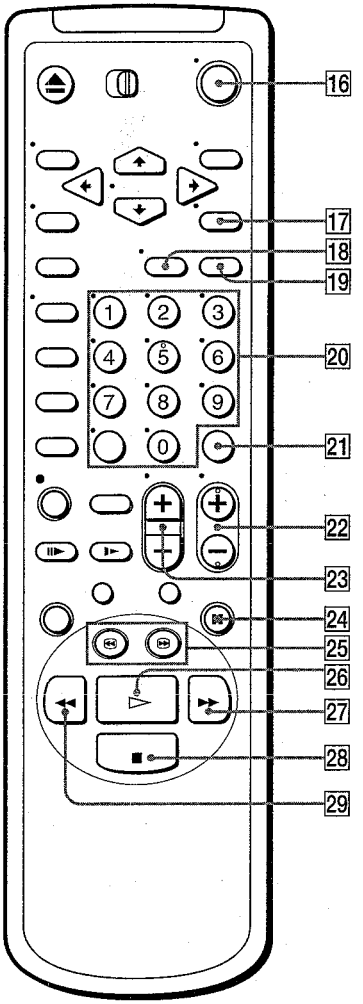
11 ● REC button (29)

12 ▮► SLOW button (36)

13 ▮▮► FRAME button (36)

14 REPLAY button (25)

15 ⏮/⏭ INDEX SEARCH buttons (42)



16 ⏻ (on/standby) switch (32, 35)

17 AUDIO MONITOR button (40)

18 TV/VIDEO button (*for TV*) (5)

19 G-CODE button (31)

20 Programme number/–/-- (ten's digit) buttons (30)

21 SET button (32)

22 PROG +/– buttons (15, 29)

23 VOL +/– buttons (*for TV*)

24 ⏸ PAUSE button (25)

25 ⏪/⏩ SEARCH buttons (25)

26 ▷ PLAY button (25)

27 ⏩ FF button (25, 36)

28 ■ STOP button (25, 29)

29 ⏪ REW button (25, 36)